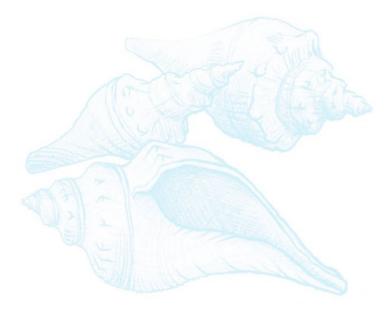
The choice of management measures should be decided by the harvesters themselves but can be guided with technical support provided from external institutions

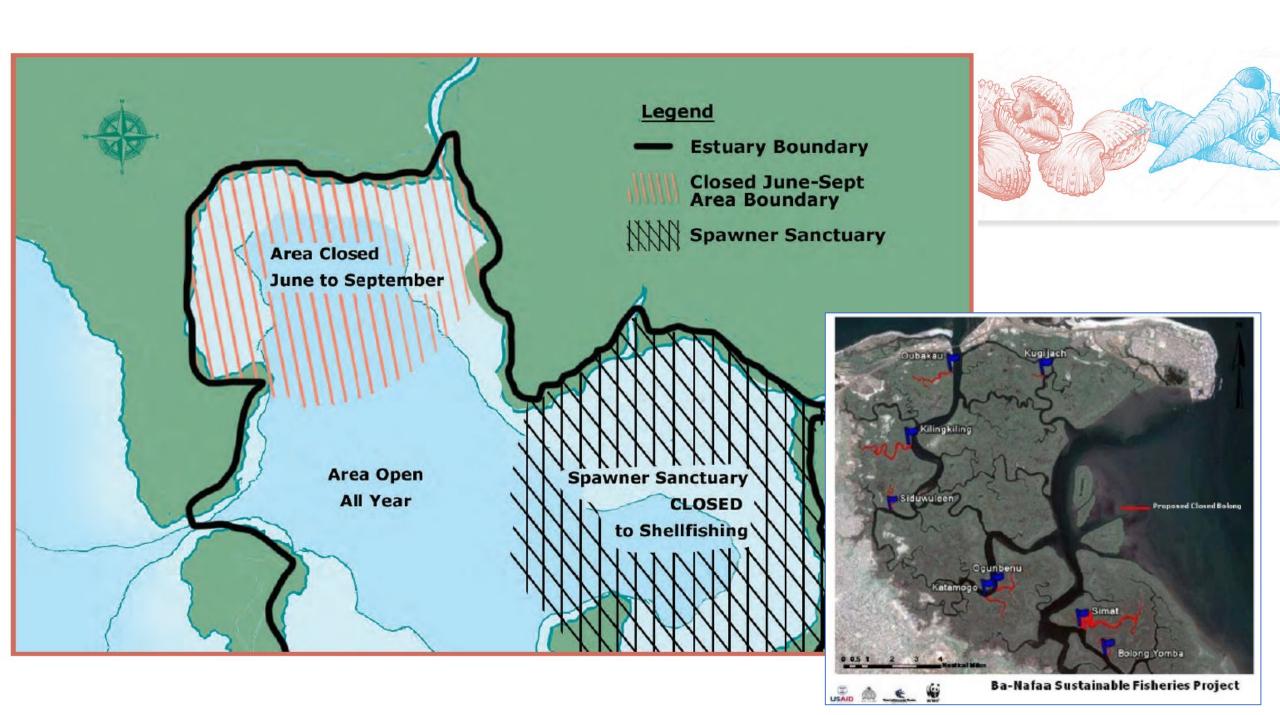






Closed seasons and closed areas





Size limits

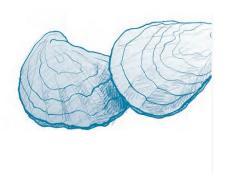
Tanbi Plan, The Gambia = 6cm oysters

Densu Plan, Ghana = 7cm oysters

- Gear restrictions
- Daily quotas
- Limiting days allowed for fishing
- Restricted access and licensing

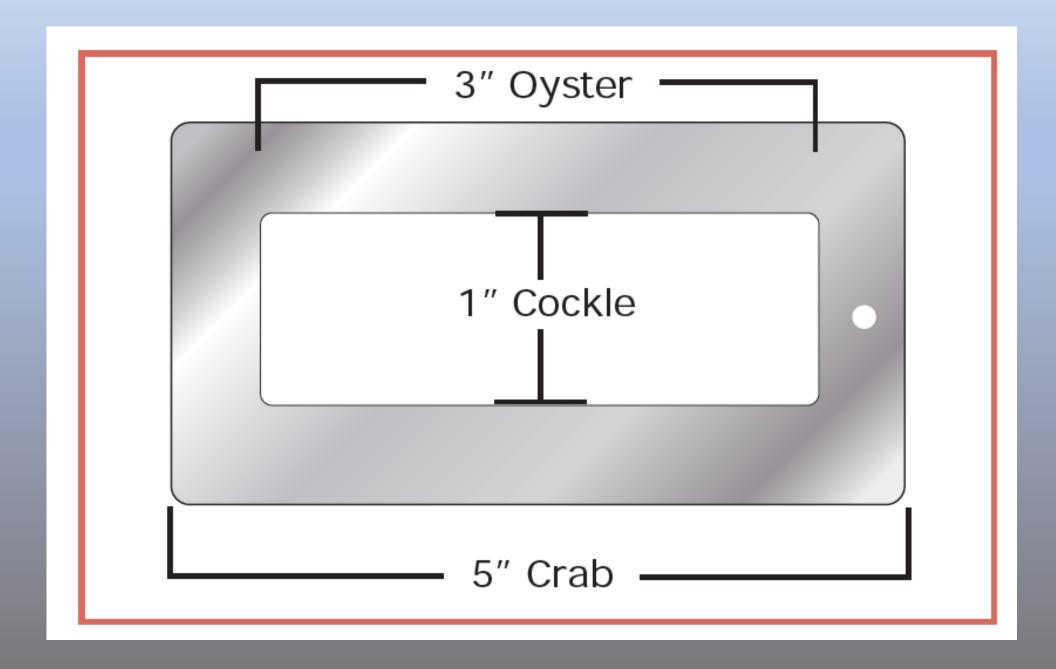




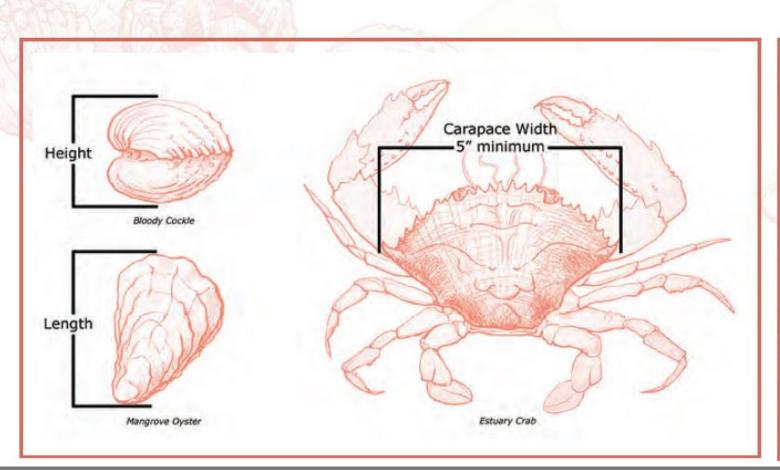








How to measure shellfish and crabs





- Habitat protection and restoration
 - Mangrove conservation and protection
 - Oyster reef restoration
 - Water quality monitoring and protection











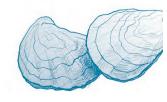
- Productivity enhancements
 - Aquaculture
 - Hatcheries
 - Transplanting spat or juveniles



Leasing or licensing of harvesting or aquaculture areas







- Promoting public health
 - Oyster consumption as part of a healthy and diversified diet.
 - Shellfish sanitation programs
 - Cautionary concerning contaminants



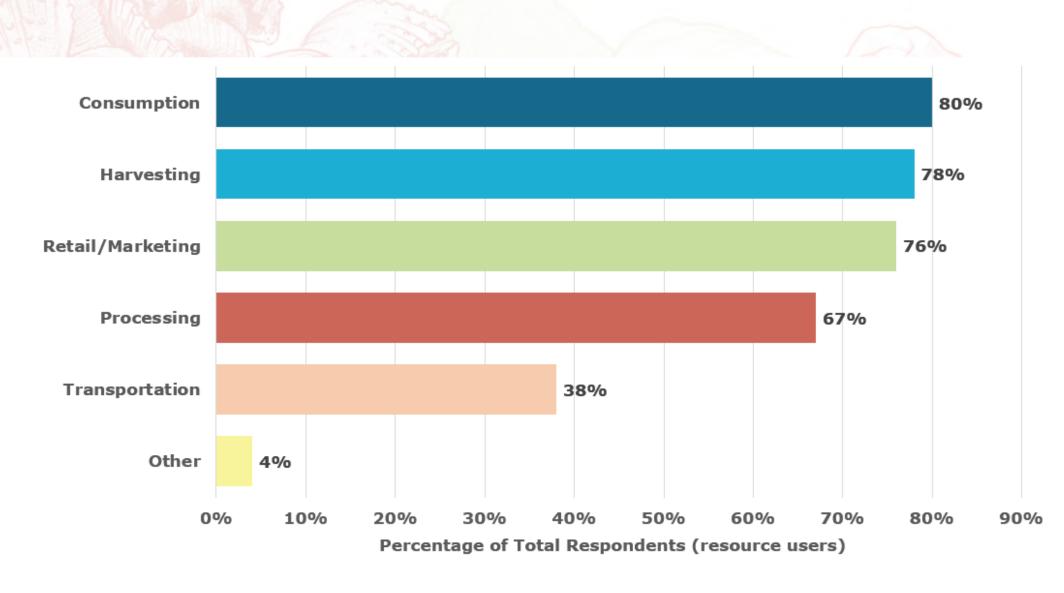


Figure 34: Resource Users' Involvement in the Shellfisheries Value Chain in West Africa (Source: Chuku, et al., 2021)



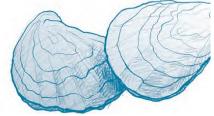


Promoting Integrated Approaches

Diversified livelihoods

- Alternative livelihoods in open access fisheries ≠ fewer fishers
- Diversify income and food sources to reduce pressure and increase resilience
- Focus on youth/next generation
- Prioritize general skills development (numeracy, literacy, business)
- Improve existing supplemental livelihoods
 (i.e., Shells for poultry feed input, construction, lime)





Nutritious Food Tree and Crop Portfolios Promoting Diversity



resent but low source

Data compilation on-going

Carefully designed *portfolios* combining food trees - those that supply fruits, nuts, leaves, etc. - with vegetable, pulse and staple crops to address seasonal gaps and micronutrient deficits

Promoting Integrated Approaches: Diversified food production systems

Micronutrient-rich crops like fruits and vegetables are often lacking and highly season-dependent, low purchase

Local, <u>contextually relevant</u> solutions are needed

Step 1. Food Production Diversity

Use of agricultural and wild biodiversity

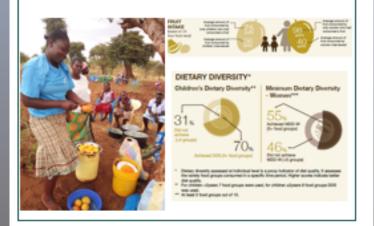
- → Food/fodder production diversity
- +++Indigenous (underutilised)
- → Food security



Step 2. Food Consumption Diversity

Food consumption, diet diversity

- → Dietary recalls
- → Dietary Diversity Score
- → Micronutrient intake



Step 3. Priority Setting

Prioritise agricultural and wild biodiversity for food, income; seasonal food harvest calendars





i. Species Diversity ii. Functional Uses





iii. Opps. & Challenges iv. Ranking



